

# Curriculum vitae

## Personal information

Surname(s) / First name(s)	<b>Zwolinski, Juan Pablo</b>
Address(es)	1650 8th Ave, Apt 110, San Diego, CA 92101, USA
Telephone(s)	(1)858 546 5654
Email(s)	juan.zwolinski@noaa.gov
Nationality(-ies)	Argentine / Portuguese
Date of birth	24/01/1977
Gender	Male

## Work Experience

Dates	07/2009 - Present
Position held	Contractor for the National Oceanographic and Atmospheric Administration - Southwest Fisheries Science Center
Main activities	Deriving abundance estimates of the main coastal pelagic species off the Western American Coast through multifrequency acoustic surveys.
Dates	04/2007 - 12/2008
Position held	Post-doctoral research position at the Portuguese Institute for Fisheries - IPIMAR
Main activities	Acoustic surveying and data analysis for the estimation of pelagic fish stocks biomass off the Portuguese coast.
Dates	01/2003 - 12/2006
Position held	Doctoral research position at IPIMAR (Supported by the Portuguese Foundation for Science and Technology)
Main activities	Acoustic estimation of sardine stock. Studies on sardine ecology and distribution.
Dates	12/2000 - 12/2002
Position held	Grant holder for EU study project "Using environmental variables with improved DEPM methods to consolidate the series of sardine and anchovy estimates" at IPIMAR
Main activities	Use of generalized additive models to obtain daily egg production estimates.
Dates	9/1999 - 7/2000
Position held	Period of training at IPIMAR
Main activities	Estimation of biological parameters from serial spawning fish.

## Education and training

Year	2008
Qualification / University	Ph.D. / University of Aveiro, Portugal
Theme	The use of underwater acoustics on the ecology and abundance estimation of sardine <i>Sardina pilchardus</i> .
Year	2003
Qualification / University	Master degree / Faculty of Agronomy, Lisboa
Theme	Mathematics Applied to Biological Sciences
Year	2000
Qualification / University	First degree / Faculty of Sciences, Lisboa
Theme	Biology Applied to Marine Resources

## Scholarships

Year	2009
Portuguese Ministry of Science and Higher Education	Post-doc Scholarship

## Personal skills and competences

Mother tongue(s)

Self-assessment  
European level<sup>(\*)</sup>

English

Computer skills

Word Processing / Multimedia  
Data Storage  
Programming and Statistics  
Acoustic data handling

## Scientific work

2003  
PhD Scholarship

## Portuguese and Spanish<sup>1</sup>

<sup>1</sup> Advanced level certificate, Cervantes Institute

Understanding		Speaking		Writing
Listening	Reading	Spoken interaction	Spoken production	
c1	c1	c1	c1	c1

<sup>(\*)</sup> Common European Framework of Reference (CEF) level

LaTeX, Microsoft Word and PowerPoint proficient  
Access and Excel proficient  
R, S-plus and Statistic proficient,  
Movies+, Echoview

### Peer reviewed publications:

**Zwolinski, J.**, Paulo B. Oliveira, Morais, A., Quintino, V., Stratoudakis, Y. Sardine potential habitat and environmental forcing off western Portugal. Submitted to ICES Journal of Marine Science

**Zwolinski, J.**, Fernandes, P.G., Marques, V., Stratoudakis, Y. (2009) Estimating fish abundance from acoustic surveys: calculating variance due to acoustic backscatter and length distribution error. Canadian Journal of Fisheries and Aquatic Sciences 66: 2081-2095

**Zwolinski, J.**, Morais, A., Marques, V. Stratoudakis, Y., Fernandes, P. (2007) Diel variation in the vertical distribution and schooling behaviour of sardine off Portugal. ICES Journal of Marine Science, 64:963-972

Garrido, S., Marçalo, A., **Zwolinski, J.**, van der Lingen, C. (2007) Laboratory investigations on the effect of prey size and concentration on the feeding behaviour of *Sardina pilchardus*. Marine Ecology Progress Series 330: 189-199

**Zwolinski, J.**, Mason, E., Oliveira, P., Stratoudakis, Y. (2006) Fine-scale distribution of sardine *Sardina Pilchardus* eggs and adults during s spawning event. Journal of Sea Research 56: 294-304

**Zwolinski, J.**, Stratoudakis, Y., Soares, E. (2001) Intra-annual variation in batch fecundity of sardine off Portugal. Journal of Fish Biology 58: 1633-1645

### Others:

**Zwolinski, J.**, Demer, D.A., Cutter, G.R., Sessions, T.S., Renfree, D., Griffith, D. and McClatchie, S. (2009) Multifrequency acoustic surveys, In McClatchie, S. (Ed) Report of the NMFS California Current Ecosystem Survey (CCES) (April and July-August 2008. NOAA Technical Memorandum NMFS-SWFSC-438)

### Oral presentations in international Meetings:

**Zwolinski, J.**, Cutter, G.R., Demer, D.A. Towards improved acoustic surveys in the California Current Ecosystem: a review of coastal pelagic species, equipment and methods currently used to assess their distribution and abundances. Tri-National Sardine Forum, November 17-19 2009, La Paz, Mexico

**Zwolinski, J.**, Paulo B. Oliveira, Morais, A., Quintino, V., Stratoudakis, Y. Sardine potential habitat and environmental forcing off western Portugal. ICES/PICES Early Career Scientists Meeting, June 26-29, 2007, Baltimore, USA

**Zwolinski, J.**, Paulo B. Oliveira, Morais, A., Marques, V. Stratoudakis, Y. Distribution of sardine and anchovy potential habitat off Southern Iberia. International Symposium on Ecosystem Approach with Fisheries Acoustic and Complementary Technologies (SEAFACETS), June 16-20, 2008, Bergen, Norway

**Zwolinski, J.**, Oliveira, P., Stratoudakis, Y. (2005) Visualization of coastal internal waves in planktonic scattering layers during fisheries acoustic surveys. ICES CM 2005/U:20

*Posters:*

Gimona, A., Fernandes, P.G. and **Zwolinski, J.**, (2003) A geostatistical conditional simulation of acoustic survey data incorporating a generalized additive model for depth., Large Scale Fishery Independent Surveys: Looking to the Future by Learning from the Past, Symposium of the American Fisheries Society, 133rd, Quebec, August 10-14, 2003.

M. Angélico, M. Bernal, Y. Stratoudakis, P. Beillois, G. Boyra, G. Costas, C. Franco, D. Garabana, L. Ibaibarriaga, M. Iglesias, M. Jiménez, A. Lago de Lanzós, V. Marques, J. Massé, M. Millán, E. Nogueira, C. Nunes, J. Pérez, P. Petitgas, F. Ramos, B. Santos, M. Santos, A. Silva, A. Uriarte and **Zwolinski, J.**, (2003) ICES - Working Group on Acoustic and Egg Surveys for Sardine and Anchovy (WGACEGG): fish stock estimation and pelagic habitat characterization in the European North Eastern Atlantic, Eastern boundary upwelling ecosystems, integrative and comparative approaches. 2-6 June 2008, Las Palmas, Gran Canaria, Spain

*Thesis:*

**Zwolinski, J.** (2008) Acoustic estimation and distribution of sardine (*Sardina pilchardus*). PhD Thesis, Universidade de Aveiro, Aveiro, Portugal

**Zwolinski, J.** (2003) Modeling the distribution and abundance of Sardine *Sardina pilchardus* eggs at small scale. Master thesis (in Portuguese), Faculty of Agronomy, Lisboa, Portugal

**Zwolinski, J.** (2000) Batch fecundity of sardine *Sardina pilchardus*. First degree thesis (in Portuguese), Faculty of Sciences, Lisboa, Portugal

**Participation in experts working groups and courses**

- 2008 ICES Working Group on Acoustic and Egg Surveys for Sardine and Anchovy, November 26-30, Nantes, France
- 2008 ICES Working Group FAST, November 26-30, Nantes, France
- 2007 ICES Working Group on Acoustic and Egg Surveys for Sardine and Anchovy, November 26-30, Palma de Mallorca, Spain
- Summer course on Marine Bioacoustics, 16 July-18 August 2007, Friday Harbor Laboratories, University of Washington, USA
- EUR-Oceans summer course on modeling of marine populations, 2-13 July 2007, IPIMAR, Lisbon, Portugal
- ICES/PICES Early Career Scientists Meeting, June 26-29, 2007, Baltimore, USA
- 2006 and previous years ICES Annual Science Meeting, September 20-24, 2005, Aberdeen Scotland
- ICES Annual Science Meeting, September 22-54, 2004, Vigo, Spain
- ICES Working Group on Survey Design and Data Analysis 2004, Aberdeen, Scotland.
- XI Annual Congress of the Portuguese Statistics Society 2002, Faro, Portugal
- ICES Study Group on the Estimation of Spawning Stock Biomass for Sardine and Anchovy 2001, Lisbon Portugal
- Erasmus course "Physiological Ecology of Algae", 24 June to 4 de July de 1998, Concarneau, France

**Participation in field trips and surveys**

- 2008 Acoustic technician in the NOAA Leatherback use of temperature habitat (LUTH) Survey, California, September 2008
- 2008 Chief scientist, Pelago08 Acoustic survey for the estimation of abundance of pelagic fish off Portugal and Gulf of Cadiz, April , 2008
- 2007 Chief scientist, Acoustic survey for the estimation of abundance of pelagic fish off Portugal and Gulf of Cadiz, November 6-17, 2007
- Acoustic technician, Pelago07 Acoustic survey for the estimation of abundance of pelagic fish off Portugal and Gulf of Cadiz, April, 2007
- 2006 and previous years Around 100 days of acoustic surveys off the Portuguese coast and North Sea during the previous 4 years.
- Several collaborations in underwater surveys through scuba-diving.